

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063370 A1

(51) International Patent Classification⁷: **B01F 17/00**

(21) International Application Number:
PCT/IL2004/001188

(22) International Filing Date:
30 December 2004 (30.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/533,230 31 December 2003 (31.12.2003) US

(71) Applicant (for all designated States except US): YISSUM
RESEARCH DEVELOPMENT COMPANY OF THE
HEBREW UNIVERSITY OF JERUSALEM [IL/IL];
Hi Tech Park, Edmond Safra Campus, Givat Ram, 91390
Jerusalem (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GARTI, Nissim

[IL/IL]; 9 Hachoresch Street, 97278 Jerusalem (IL).
EFRAT, Rivka [IL/IL]; 55 Bazelt Street, 48540 Rosh
Ha'ayin (IL). ASERIN, Abraham [IL/IL]; 5/10 Idelson
Street, Ramot 03, 97665 Jerusalem (IL).

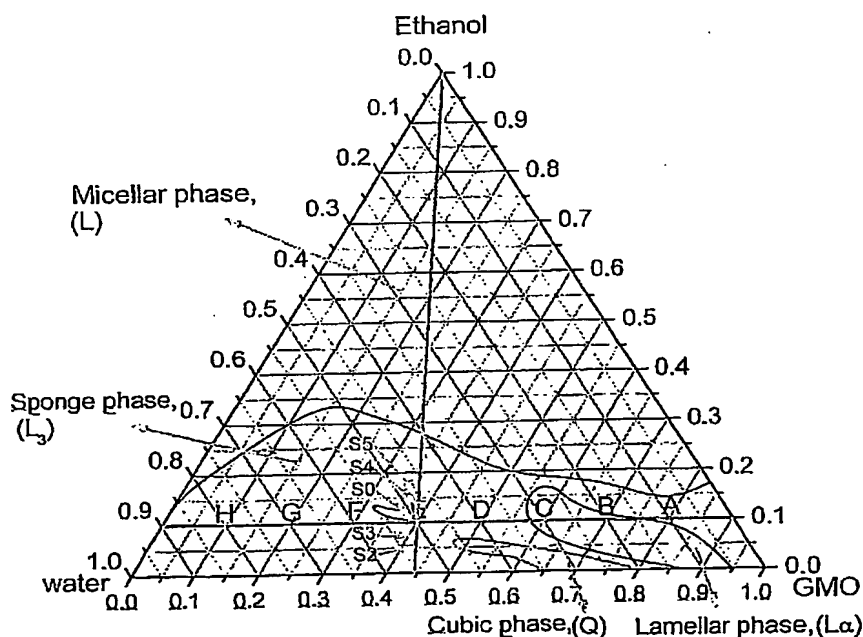
(74) Agent: REINHOLD COHN AND PARTNERS; P.O.B.
4060, 61040 Tel Aviv (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: STABLE ILL-DEFINED CUBIC NANOSIZED PARTICLES IN A TERNARY AQUEOUS PHASE



(57) Abstract: The present invention concerns ternary system comprising 40 to 65% water; 6 to 22% alcohol or a ketone; and 25 to 60% a fatty acid or an ester thereof forming spontaneously a stable, non-viscous and clear nanosized structures having cubic-like nanosized symmetry. The ternary system may be dispersed and used as a solubilizing medium for hydrophobic and hydrophilic substances.

WO 2005/063370 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report